Author Index of Volume 141

Ajo', D., 103
Akasheh, T. S., 125
Al-Ahmed, Z. M., 125
Alnaimi, I. S., 139
Al-Showiman, S. S., 263
Amberger, H.-D., 313
Anderson, D. M., 157
Arkhireeva, T. M., 221
Armstrong, E. M., 17
Arnaíz, F. J., 57
Atanasov, M. A., 27

Bacon, J. W., 61
Baker, P. K., 17
Baldas, J., 153
Bartolomé, C. S., 57
Bastide, J. P., 11
Beck, M. T., 1
Bell, N. A., 155, 173
Belsky, V. K., 221
Benedix, R., 21
Benefield, R. M., 61
Bennett, D. W., 33
Berry, F. J., 53
Bertani, R., 253
Bino, A., 5
Boiko, G. N., 221
Bonnyman, J., 153
Boschi, T., 169
Botsford, C. A., 167
Bradshaw, J. E., 41
Brock, C. P., 145
Bucci, R., 99
Bulychev, B. M., 221
Burmeister, J. L., 205

Campana, C. F., 75, 243
Caneschi, A., 3
Capparelli, M. V., 287
Carunchio, V., 99
Casellato, U., 103
Chandra, L., 185
Christofides, A., 161
Chudley, N. A., 155
Clack, D. W., 37
Claudy, P., 11
Coffer, J. L., 33
Cohen, N., 5
Constable, E. C., 201
Corr, S., 201
Cotton, F. A., 91
Crociani, B., 253
Crotti, C., 13

Dei, A., 3
Demoulini, S. A., 61
Di Bianca, F., 253
Du, J.-L., 19

Edelstein, N., 313
El-Dissouky, A., 119
El-Ezaby, M. S., 295
El Hajri, J., 11

Faulhaber, J. C., 61
Flack, C. E., 61
Fultz, W. C., 205
Furlani, D., 7

Ganis, P., 7
García, G., 57
Gaura, R. M., 83
Gaus, P. L., 61
Ghatwary, E. E., 119
Gillard, R. D., 37
Girelli, A. M., 99
Gogarty, P. M., 53
Graziani, R., 103
Grossbruchhaus, V., 9
Grossie, D. A., 41
Grygon, C. A., 205
Guerriero, P., 103
Gupta, N. S., 185

Haase, M., 243
Hanaki, A., 49
Hennig, H., 21
Hicsasmaz, H., 61
Hitchcock, P. B., 157
Hodgson, D. J., 167
House, D. A., 211
Howlin, B. J., 227
Hsieh, T. C.-Y., 131

James, B. R., 13
Jennings, K. R., 163
Jha, N. K., 185

Kahwa, I. A., 131
Keller, J., 243
Kemp, T. J., 163
Kinthada, P. M. M. S., 179
Laine, R. A., 131
Landee, C. P., 83
Lappert, M. F., 157
Lawrence, A. J., 165
Lawson, A., 165
Létoffe, J. M., 11
Licoccia, S., 169
Linert, W., 233
Lynch, D. E., 61

Makhyoun, M. A., 295
March, L. A., 155
Marji, D., 125
Marks, T. J., 145
Masoud, M. S., 119
Matos, J. R., 305
Mehrotra, R. C., 289
Mohan, M., 185
Moll, M., 243
Molloy, K. C., 7, 151
Moss, I., 157
Muir, J. A., 75
Muir, M. M., 75
Mullica, D. F., 41

Nagar, M. S., 309
Nascimento, A. B., 305
Nour, E. M., 139
Nowell, I. W., 155

O'Brien, S., 83
Oliver, K. W., 19
Ozawa, T., 49

Pacheco, A., 13
Paolesse, R., 169
Pennington, D. E., 41
Pérez, M., 57
Perry, B., 61
Pett, V. B., 61
Piggott, B., 275, 287
Poli, R., 91
Prabhakar, L. D., 179
Prasad, R. S., 185

Ramakhrishna, B. L., 83
Reddmann, H., 313
Rehder, D., 9
Rheingold, A. L., 205
Robinson, W. T., 211
Ruikar, P. B., 309

© Elsevier Sequoia/Printed in Switzerland

Saez, R., 75
Schmidtke, H.-H., 27
Schönherr, T., 27
Schram, E. P., 69
Scott, B., 193
Selbin, J., 131
Sellmann, D., 243
Shah, A., 289
Siekierski, S., 301
Sieklucka, B., 163
Silver, J., 227
Singh, A., 289
Sishta, C., 13
Sokolova, T. A., 221
Soloveichik, G. L., 221
Subramanian, M. S., 309
Swee Fatt Wong, 275, 287
Sygollitou-Kourakou, A., 161

Tagliatesta, P., 169
Tagliavini, G., 7
Taha, A. A., 139
Thompson, R. C., 19
Thornback, J. R., 165
Tóth, Z., 1
Towle, D. K., 167

Venkata Reddy, D., 179
Vigato, P. A., 103
Villanueva, J., 61

Ward, M. D., 201
Wehrli, S. L., 33
Williams, D. J., 275
Willett, R. D., 83, 193

Zanelli, G. D., 165
Zanello, P., 103
Zanotto, L., 253
Zerong Lin, 145
Zinner, L. B., 305

Subject Index of Volume 141

Actinide complexes
itinerant behavior of actinides; comparison of unit cell volumes of isostructural actinide and lanthanide compounds, 301
Alkoxide complexes
synthetic, chemical spectroscopic (infrared and electronic) and magnetic studies on dizirconiumenneaisopropoxide complexes of Fe(II), 289
Alkyl complexes
structure of dicyclohexyltin dichloride, 7
synthesis, structural characterization, and properties of organothorium alkylthiolate complex $[(CH_3)_5C_5]_2Th(SCH_2CH_2CH_3)_2$, 145
Alkyl compounds
preparation and characterization of potassiumtriisobutyldialuminum and tripotassiumdecaisobutylpentaaluminum, 69
Alkyne complexes
reactions of $[WI_2(CO)(NCMe)(\eta^2\text{-}RC_2R)_2]$ (R = Me or Ph) with NCPh to give acetonitrile substituted products $[WI_2(CO)(NCPh)(\eta^2\text{-}RC_2R)_2]$, 17
Aluminium complexes
study of reaction of $MAlH_4$ (M = Li, Na) and KH in organic non-solvent, 11
Aluminum compounds
preparation and characterization of potassiumtriisobutyldialuminum and tripotassiumdecaisobutylpentaaluminum, 69
Amine complexes
activation parameters for directly determined first order rate constants for outer sphere electron transfer reactions, and crystal structure of pertinent pentaammine of Co^{III}, 61
Co(III) complexes containing two chiral ligands; structure of Λ-*cis*-β_2-(*SS*)-[*S*-alaninato-2*S*,5*R*,-9*S*-trimethyltriencobalt(III)] perchlorate hydrate, 75
convenient, high yield synthesis of 2,2′:6′,2″-terpyridine and its Fe(II) complex, 201
Cr(III) complexes with 1,5,9-triazanonane (3,3-tri) – $CrX_3(3,3\text{-tri})^{n+}$ and CrCl(diamine)-$(3,3\text{-tri})^{2+}$, 211
^1H, ^{13}C and ^{199}Hg NMR characteristics of new amine–mercuric chloride complexes, 263
low frequency infrared spectra and thermal behaviour of *N,N,N′*-trimethylethylenediamine complexes, 173
Antimony complexes
investigation of phases in Ti–Sb–O system, 53
Aromatic amineoxide complexes
lanthanoid methanesulfonate complexes with 3-picoline *N*-oxide; spectral study of Nd and Eu complexes, 305
Aromatic anion complexes
formation of Fe(II) complexes with some aromatic anions in DMSO, 99
Aryl complexes
solid state ^{119}Sn NMR study of organotin carboxylates and thiophosphates, 151
Azo complexes
synthesis and stereochemistry of new Co azonitroso complexes, 119

Bidentate ligand complexes
complexes of tetravalent Pu, U and Th with acylpyrazolones, 309
convenient, high yield synthesis of 2,2′:6′,2″-terpyridine and its Fe(II) complex, 201
on coordination sphere geometry of trisacetylacetonato metal(III) complexes of first transition series rationalized by orbital phase coupling effects, 27
on electronic structure and spectroscopic properties of d^8-metal mixed-ligand complexes with S/O donor and N-acceptor ligands, 21
low frequency infrared spectra and thermal behaviour of *N,N,N′*-trimethylethylenediamine complexes, 173
preparations and characterizations of μ_3-oxohexakis(μ_2-carboxylpyridine-*O,O*)triaquatrichromium(III) perchlorates, 41
some reactions of ethylenebis(phenylphosphido)-dilithium reagent $[\{Li(THF)_2\}_2(PhPCH_2CH_2\text{-}PPh)]_2$, and its X-ray structure, 157
seven-coordinate Mo(II) carbonyl complexes containing two different bidentate ligands (2,2′-bipyridyl and $Ph_2PCH_2PPh_2$ or $Ph_2PCH_2\text{-}CH_2PPh_2$), 57
solution behaviour and relative stability of complexes $[MCl_2(RN{=}CH{-}CH{=}NR)]$ and $[MCl_2\text{-}(py\text{-}2\text{-}CH{=}NR)]$ (M = Pd, Pt; R = C_6H_4OMe-*p*), 253
synthesis and characterization of bis-triphenylphosphine selenide complexes $[RhL(SePh_3)_2]\text{-}ClO_4$ (L = COD, COT, NBD), 161
synthesis, ^{95}Mo NMR spectra and X-ray crystal structure of $MoO_2(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1$ and $Mo_2O_5(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1(H_2O)_1$, 287
synthesis of some Ru complexes with mixed diimine ligands, 125
V(II)– and V(III)–formamidinato compounds; synthesis and molecular structure of $V(form)_2$-

© Elsevier Sequoia/Printed in Switzerland

$(NC_5H_5)_2$ and $V(\eta^5\text{-}C_5H_5)(form)_2$ [form = *N,N'*-di-*p*-tolylformamidine], 91

Cadmium complexes
low frequency infrared spectra and thermal behaviour of *N,N,N'*-trimethylethylenediamine complexes, 173
Carbonyl complexes
reactions of $[WI_2(CO)(NCMe)(\eta^2\text{-}RC_2R)_2]$ (R = Me or Ph) with NCPh to give acetonitrile substituted products $[WI_2(CO)(NCPh)(\eta^2\text{-}RC_2R)_2]$, 17
seven-coordinate Mo(II) carbonyl complexes containing two different bidentate ligands (2,2'-bipyridyl and $PhPCH_2PPh_2$ or $Ph_2PCH_2CH_2PPh_2$), 57
six and seven coordinate CO, NO, PMe_3 and phosphineiminato Mo complexes with [Mo{S_4}] frameworks ({S_4} = 2,3;8,9-dibenzo-1,4,7,10-tetrathiadecane(2–)), 243
synthesis and reactions of tris(tricarbonyl-η^5-cyclopentadienylmolybdyl)phosphine, $\mu^3\text{-}P[\eta^5\text{-}C_5H_5Mo(CO)_3]_3$, 9
Carboxylate complexes
solid state ^{119}Sn NMR study of organotin carboxylates and thiophosphates, 151
Catalysis
promoted hydrolysis of nitriles using H_2O_2; isolation and characterization of paramagnetic Ni(II)-peroxoacetimido derivative, 3
Chelate complexes
complexes of tetravalent Pu, U and Th with acylpyrazolones, 309
convenient, high yield synthesis of 2,2':6',2''-terpyridine and its Fe(II) complex, 201
on coordination sphere geometry of trisacetylacetonato metal(III) complexes of first transition series rationalized by orbital phase coupling effects, 27
Cr(III) complexes with 1,5,9-triazanonane (3,3-tri) – $CrX_3(3,3\text{-tri})^{n+}$ and CrCl(diamine)-$(3,3\text{-tri})^{2+}$, 211
on electronic structure and spectroscopic properties of d^8-metal mixed-ligand complexes with S/O-donor and N-acceptor ligands, 21
^{95}Mo NMR studies of complexes containing $Mo_2O_5^{2+}$ core and crystal structure of $Mo_2O_5\text{-}[SC_6H_4NHCH_2C_5H_4N]_2(C_3H_7NO)_3$, 27
some reactions of ethylenebis(phenylphosphido)-dilithium reagent $[\{Li(THF)_2\}_2(PhPCH_2CH_2PPh)]_2$, and its X-ray structure, 157
seven-coordinate Mo(II) carbonyl complexes containing two different bidentate ligands (2,2'-bipyridyl and $Ph_2PCH_2PPh_2$ or $Ph_2PCH_2CH_2PPh_2$), 57
six and seven coordinate CO, NO, PMe_3 and phosphineiminato Mo complexes with [Mo{S_4}] frameworks ({S_4} = 2,3;8,9-dibenzo-1,4,7,10-tetrathiadecane(2–)), 243
solution behaviour and relative stability of complexes $[MCl_2(RN{=}CH{-}CH{=}NR)]$ and $[MCl_2(py\text{-}2\text{-}CH{=}NR)]$ (M = Pd, Pt; R = C_6H_4OMe-*p*), 253
synthesis and characterization of bis-triphenylphosphine selenide complexes $[RhL(SePh_3)_2]ClO_4$ (L = COD, COT, NBD), 161
synthesis, ^{95}Mo NMR spectra and X-ray crystal structure of $MoO_2(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1$ and $Mo_2O_5(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1(H_2O)_1$, 287
synthesis of some Ru complexes with mixed diimine ligands, 125
V(II)– and V(III)–formamidinato compounds; synthesis and molecular structure of $V(form)_2(NC_5H_5)_2$ and $V(\eta^5\text{-}C_5H_5(form)_2$ [form = *N,N'*-di-*p*-tolylformamidine], 91
Chiral ligand complexes
Co(III) complexes containing two chiral ligands; structure of Λ-*cis*-β_2-(*SS*)-[*S*-alaninato-2*S*, 5*R*,9*S*-trimethylcobalt(III)] perchlorate hydrate, 75
Chloride complexes
magneto-structural correlations in chains of bifolded $Cu_2Cl_6^{2-}$ dimers, 83
Chromium complexes
Cr(III) complexes with 1,5,9-triazanonane (3,3-tri) – $CrX_3(3,3\text{-tri})^{n+}$ and CrCl(diamine)-$(3,3\text{-tri})^{2+}$, 211
preparations and characterizations of μ_3-oxo-hexakis(μ_2-carboxylatopyridine-*O,O*)triaquatrichromium(III) perchlorates, 41
Cobalt complexes
activation parameters for directly determined first order rate constants for outer sphere electron transfer reactions, and crystal structure of pertinent pentaammine of Co^{III}, 61
Co(III) complexes containing two chiral ligands; structure of Λ-*cis*-β_2-(*SS*)-[*S*-alaninato-2*S*, 5*R*,9*S*-trimethyltriencobalt(III)] perchlorate hydrate, 75
synthesis and stereochemistry of new Co azonitroso complexes, 119
Copper complexes
magnetic and spectroscopic properties of poly-bis(μ-diphenylphosphinato)Cu(II), 19
magneto-structural correlations in chains of bifolded $Cu_2Cl_6^{2-}$ dimers, 83
structural and magnetic properties of bis(ethanolammonium)hexahalodicuprate(II) salts; Cu(II) halide dimers with square-pyramidal type distortion, 193
structure of Cu(II) complexes of lysine $[Cu(lys)_2][HgI_3]_2$, 5
transition metal complexes with 'end-off' compartmental Schiff bases containing sulphonic or phosphonic groups, 103

Crystal structure(s)
of Λ-*cis*-β$_2$-(*SS*)-[*S*-alaninato-2*S*,5*R*,9*S*-trimethyltriencobalt(III)] perchlorate hydrate, 75
of bis(ethanolammonium)hexahalodicuprate(II) salts, 193
of $(\eta^5\text{-}C_5H_5)_2TaH(\mu_2\text{-}H)_2ZnCl_2\cdot C_4H_8O$, 221
of $[(CH_3)_5C_5]_2Th(SCH_2CH_2CH_3)_2$, 145
of $CrX_3(3,3\text{-tri})^{n+}$ and $CrCl(diamine)(3,3\text{-tri})^{2+}$, 211
of $[Cu(lys)_2][HgI_3]_2$, 5
of dicyclohexyltin dichloride, 7
of diselenocyanato[bis(diphenylphosphino)-methane]Pd(II) and cyano(selenocyanato)-[diphenyl(diphenylphosphinomethyl)phosphine selenide]Pd(II), 205
of α-HgI_2PPr_3, 155
of $[\{Li(THF)_2\}_2(PhPCH_2CH_2PPh)]_2$, 157
of $MoO_2(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1$ and Mo_2O_5-$(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1(H_2O)_1$, 287
of $Mo_2O_5[SC_6H_4NHCH_2C_5H_4N]_2(C_3H_7NO)_3$, 275
of μ_3-oxo-hexakis(μ_2-carboxylatopyridine-*O*,*O*)-triaquatrichromium(III) perchlorates, 41
of pentaammine of Co^{III}, 61
transition metal complexes with 'end-off' compartmental Schiff bases containing sulphonic or phosphonic groups, 103
Cyanide complexes
stepwise ligand dissociation and multiple changes in oxidation state in fast atom bombardment (FAB) of cyanometallate complexes, 163
Cyanide compounds
formation of $[S(CN)_2]_n$ in solid phase reaction of ICN and KSCN, 1
Cyclopentadienyl complexes
crystal field splitting pattern of perdeuterated tris(η^5-cyclopentadienyl)U(IV) chloride in low energy range, 313
reactions of tantalocene trihydride $(\eta^5\text{-}C_5H_5)_2$-TaH_3 with second group metal halogenides; crystal and molecular structure of $(\eta^5\text{-}C_5H_5)_2$-$TaH(\mu_2\text{-}H)_2ZnCl_2\cdot C_4H_8O$, 221
on thermal analysis of ferricenium μ-oxo-bis-[trichloroferrate(III)], 227
V(II)– and V(III)–formamidinato compounds; synthesis and molecular structure of $V(form)_2$-$(NC_5H_5)_2$ and $V(\eta^5\text{-}C_5H_5)(form)_2$ [form = *N*,*N'*-di-*p*-tolylformamidine], 91

Diimine complexes
solution behaviour and relative stability of complexes $[MCl_2(RN{=}CH{-}CH{=}NR]$ and $[MCl_2$-(py-2-CH=NR)] (M = Pd, Pt; R = C_6H_4OMe-*p*), 253
Dinuclear complexes
crystal structure of α-HgI_2PPr_3; adoption of unsymmetrical $I_2Hg(\mu\text{-}I)_2Hg(PPr_3)_2$ arrangement, 155
magneto-structural correlations in chains of bifolded $Cu_2Cl_6^{2-}$ dimers, 83
structural and magnetic properties of bis(ethanolammonium)hexahalodicuprate(II) salts; Cu(II) halide dimers with square-pyramidal type distortion, 193
synthesis and characterization of binuclear mixed valence complex di-μ-oxobis[tris(2-methylpyridyl)amine]dimanganese(III, IV) dithionate heptahydrate, $[(tpa)MnO]_2(S_2O_6)_{3/2}\cdot 7H_2O$, 167
synthetic, chemical spectroscopic (infrared and electronic) and magnetic studies on dizirconium-enneaisopropoxide complexes of Fe(II), 289

Electronic structure(s)
crystal field splitting pattern of perdeuterated tris-(η^5-cyclopentadienyl)U(IV) chloride in low energy range, 313
on electronic structure and spectroscopic properties of d^8-metal mixed-ligand complexes with S/O-donor and N-acceptor ligands, 21
on nature of high-spin ($^6A_1$) ⇌ low-spin ($^2T_2$) transition in $[Fe(3\text{-}CH_3OSPH)_2]Y$ complexes, 185

Halide complexes
MS-X_α treatment of energy transitions in U(V) complexes, 295
structural and magnetic properties of bis-(ethanolammonium)hexahalodicuprate(II) salts; Cu(II) halide dimers with square-pyramidal type distortion, 193
Heterocyclic complexes
ligand electron densities in coordinated pyridine, 37
Hydride complexes
reactions of tantalocene trihydride $(\eta^5\text{-}C_5H_5)_2$-TaH_3 with second group metal halogenides; crystal and molecular structure of $(\eta^5\text{-}C_5H_5)_2$-$TaH(\mu_2\text{-}H)_2ZnCl_2\cdot C_4H_8O$, 221
study of reaction of $MAlH_4$ (M = Li, Na) and KH in organic non-solvent, 11
Hydrolysis
promoted hydrolysis of nitriles using H_2O_2; isolation and characterization of paramagnetic Ni(II)-peroxoacetimido derivative, 3

Imine complexes
synthesis of some Ru complexes with mixed diimine ligands, 125
Iron complexes
convenient, high yield synthesis of 2,2′:6′,2″-terpyridine and its Fe(II) complex, 201
formation of Fe(II) complexes with some aromatic anions in DMSO, 99
ligand electron densities in coordinated pyridine, 37

on nature of high-spin ($^6A_1$) $\rightleftharpoons$ low-spin ($^2T_2$) transition in $[Fe(3\text{-}CH_3OSPH)_2]Y$ complexes, 185
synthetic, chemical spectroscopic (infrared and electronic) and magnetic studies on dizirconium-enneaisopropoxide complexes of Fe(II), 289
on thermal analysis of ferricenium μ-oxo-bis-[trichloroferrate(III)], 227

Kinetics
statistical analyses and examples for unimolecular reaction systems, 233
Kinetics and mechanism
activation parameters for directly determined first order rate constants for outer sphere electron transfer reactions, and crystal structure of pertinent pentaammine of Co^{III}, 61

Lanthanide complexes
itinerant behavior of actinides; comparison of unit cell volumes of isostructural actinide and lanthanide compounds, 301
lanthanoid methanesulfonate complexes with 3-picoline *N*-oxide; spectral study of Nd and Eu complexes, 305
novel gaseous polyatomic binary and ternary lanthanide oxides, 131
Lewis base complexes
axial ligation of some Lewis bases to oxo-metalloporphyrins, 49
Lithium complexes
some reactions of ethylenebis(phenylphosphido)-dilithium reagent $[\{Li(THF)_2\}_2(PhPCH_2CH_2\text{-}PPh)]_2$, and its X-ray structure, 157
Lysine complexes
structure of Cu(II) complexes of lysine $[Cu(lys)_2][HgI_3]_2$, 5

Magnetic structure
magneto-structural correlations in chains of bi-folded $Cu_2Cl_6^{2-}$ dimers, 83
structural and magnetic properties of bis-(ethanolammonium)hexahalodicuprate(II) salts; Cu(II) halide dimers with square-pyramidal type distortion, 193
Magnetism
magnetic and spectroscopic properties of poly-bis(μ-diphenylphosphinato)Cu(II), 19
Manganese complexes
synthesis and characterization of binuclear mixed valence complex di-μ-oxobis[tris(2-methyl-pyridyl)amine]dimanganese(III, IV) dithionate heptahydrate, $[(tpa)MnO]_2(S_2O_6)_{3/2}\cdot 7H_2O$, 167
Mass spectrometry
novel gaseous polyatomic binary and ternary lanthanide oxides, 131
stepwise ligand dissociation and multiple changes in oxidation state in fast atom bombardment (FAB) of cyanometallate complexes, 163
Mercury complexes
crystal structure of $\alpha\text{-}HgI_2PPr_3$; adoption of unsymmetrical $I_2Hg(\mu\text{-}I)_2Hg(PPr_3)_2$ arrangement, 155
^1H, ^{13}C and ^{199}Hg NMR characteristics of new amine–mercuric chloride complexes, 263
low frequency infrared spectra and thermal behaviour of *N,N,N'*-trimethylethylenediamine complexes, 173
Metal complexes
on coordination sphere geometry of trisacetyl-acetonato metal(III) complexes of first transition series rationalized by orbital phase coupling effects, 27
stepwise ligand dissociation and multiple changes in oxidation state in fast atom bombardment (FAB) of cyanometallate complexes, 163
synthesis and characterization of complexes of (4-methoxybenzaldehyde)-4-phenyl-3-thiosemi-carbazone, 179
Metalloporphyrin complexes
axial ligation of some Lewis bases to oxo-metallo-porphyrins, 49
Molecular orbital study
on coordination sphere geometry of trisacetyl-acetonato metal(III) complexes of first transition series rationalized by orbital phase coupling effects, 27
Molecular structure
of $V(form)_2(NC_5H_5)_2$ and $V(\eta^5\text{-}C_5H_5)(form)_2$ [form = *N,N'*-di-*p*-tolylformamidine], 91
Molybdenum complexes
^{95}Mo NMR studies of complexes containing $Mo_2O_5^{2+}$ core and crystal structure of $Mo_2O_5[SC_6H_4NHCH_2C_5H_4N]_2(C_3H_7NO)_3$, 275
seven-coordinate Mo(II) carbonyl complexes containing two different bidentate ligands (2,2'-bipyridyl and $Ph_2PCH_2PPh_2$ or $Ph_2PCH_2CH_2PPh_2$), 57
six and seven coordinate CO, NO, PMe_3 and phosphineiminato Mo complexes with $[Mo\{S_4\}]$ frameworks ($\{S_4\}$ = 2,3;8,9-dibenzo-1,4,7,10-tetrathiadecane(2−)), 243
synthesis, ^{95}Mo NMR spectra and X-ray crystal structure of $MoO_2(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1$ and $Mo_2O_5(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1(H_2O)_1$, 287
synthesis and reactions of tris(tricarbonyl-η^5-cyclopentadienylmolybdyl)phosphine, μ^3-P-$[\eta^5\text{-}C_5H_5Mo(CO)_3]_3$, 9

Nickel complexes
on electronic structure and spectroscopic properties of d^8-metal mixed-ligand complexes with S/O-donor and N-acceptor ligands, 21

promoted hydrolysis of nitriles using H_2O_2; isolation and characterization of paramagnetic Ni(II)-peroxoacetimido derivative, 3
Nitrido complexes
preparation, characterisation and reactions of chlorotetrakis(thiourea)nitridotechnetium(V) chloride, 153
Nitrile complexes
promoted hydrolysis of nitriles using H_2O_2; isolation and characterization of paramagnetic Ni(II)-peroxoacetimido derivative, 3
reactions of $[WI_2(CO)(NCMe)(\eta^2\text{-}RC_2R)_2]$ (R = Me or Ph) with NCPh to give acetonitrile substituted products $[WI_2(CO)(NCPh)(\eta^2\text{-}RC_2R)_2]$, 17
Nitrogen complexes
evaluation of rotational barrier in bis-(dimethylamido) phosphenium cation by spin saturation transfer and ^1H and ^{13}C complete bandshape analysis, 33
Nitroso complexes
synthesis and stereochemistry of new Co azo-nitroso complexes, 119
Nitrosobenzene complexes
nitrosobenzene complexes of (octaethylporphinato)Ru(II), 13
Nitrosyl complexes
six and seven coordinate CO, NO PMe_3 and phosphineiminato Mo complexes with [Mo{S_4}] frameworks ({S_4} = 2,3;8,9-dibenzo-1,4,7,10-tetrathiadecane(2−)), 243

Oxidation
nitrosobenzene complexes of (octaethylporphinato)Ru(II), 13
Oxide complexes
novel gaseous polyatomic binary and ternary lanthanide oxides, 131
Oxo complexes
axial ligation of some Lewis bases to oxometalloporphyrins, 49
^{95}Mo NMR studies of complexes containing $Mo_2O_5^{2+}$ core and crystal structure of $Mo_2O_5[SC_6H_4NHCH_2C_5H_4N]_2(C_3H_7NO)_3$, 275
MS-X_α treatment of energy transitions in U(V) complexes, 295
preparations and characterizations of μ_3-oxo-hexakis(μ_2-carboxylatopyridine-*O,O*)triaqua-trichromium(III) perchlorates, 41
synthesis and characterization of binuclear mixed valence complex di-μ-oxobis[tris(2-methylpyridyl)amine]dimanganese(III,IV) dithionate heptahydrate, $[(tpa)MnO]_2(S_2O_6)_{3/2}\cdot 7H_2O$, 167
synthesis, ^{95}Mo NMR spectra and X-ray crystal structure of $MoO_2(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1$ and $Mo_2O_5(C_{14}H_{11}N_2O)_2(C_2H_5OH)_1(H_2O)_1$, 287
on thermal analysis of ferricenium μ-oxo-bis-[trischloroferrate(III)], 227
Oxygen complexes
investigation of phases in Ti–Sb–O system, 53

Palladium complexes
solution behaviour and relative stability of complexes $[MCl_2(RN{=}CH{-}CH{=}NR)]$ and $[MCl_2(py\text{-}2\text{-}CH{=}NR)]$ (M = Pd, Pt; R = C_6H_4OMe-*p*), 253
structural isomerism involving an ambidentate ligand; synthesis and characterization of diselenocyanato[bis(diphenylphosphino)-methane]Pd(II) and cyano(selenocyanato)-[diphenyl(diphenylphosphinomethyl)-phosphine selenide]Pd(II), 205
Phosphinato complexes
magnetic and spectroscopic properties of poly-bis(μ-diphenylphosphinato)Cu(II), 19
Phosphine complexes
crystal structure of α-HgI_2PPr_3; adoption of unsymmetrical $I_2Hg(\mu\text{-}I)_2Hg(PPr_3)_2$ arrangement, 155
Phosphorus complexes
evaluation of rotational barrier in bis-(dimethylamido) phosphenium cation by spin saturation transfer and ^1H and ^{13}C complete bandshape analysis, 33
Platinum complexes
solution behaviour and relative stability of complexes $[MCl_2(RN{=}CH{-}CH{=}NR)]$ and $[MCl_2(py\text{-}2\text{-}CH{=}NR)]$ (M = Pd, Pt; R = C_6H_4OMe-*p*), 253
Plutonium complexes
complexes of tetravalent Pu, U and Th with acylpyrazolones, 309
Polydentate ligand complexes
Co(III) complexes containing two chiral ligands; structure of Λ-*cis*-β_2-(*S,S*)-[*S*-alaninato-2*S*, 5*R*,9*S*-trimethyltriencobalt(III)] perchlorate hydrate, 75
Cr(III) complexes with 1,5,9-triazanonane (3,3-tri) – $CrX_3(3,3\text{-tri})^{n+}$ and $CrCl(diamine)(3,3\text{-tri})^{2+}$, 211
^{95}Mo NMR studies of complexes containing $Mo_2O_5^{2+}$ core and crystal structure of $Mo_2O_5[SC_6H_4NHCH_2C_5H_4N]_2(C_3H_7NO)_3$, 275
six and seven coordinate CO, NO, PMe_3 and phosphineiminato Mo complexes with [Mo{S_4}] frameworks ({S_4} = 2,3;8,9-dibenzo-1,4,7,10-tetrathiadecane(2−)), 243
synthesis and reactions of tris(tricarbonyl-η^5-cyclopentadienylmolybdyl)phosphine, μ^3-P-$[\eta^5\text{-}C_5H_5Mo(CO)_3]_3$, 9
Polymer compounds
formation of $[S(CN)_2]_n$ in solid phase reaction of ICN and KSCN, 1

Porphyrin complexes
nitrosobenzene complexes of (octaethylporphinato)Ru(II), 13
octaethylporphyrinato(oxo)Tc(V)acetate – example of new type of Tc porphyrin complex, 165
synthetic routes to Rh(III) corrolates, 169
Potassium complexes
study of reaction of $MAlH_4$ (M = Li, Na) and KH in organic non-solvent, 11

Rhodium complexes
synthesis and characterization of bis-triphenylphosphine selenide complexes $[RhL(SePh_3)_2]ClO_4$ (L = COD, COT, NBD), 161
synthetic routes to Rh(III) corrolates, 169
Ruthenium complexes
nitrosobenzene complexes of (octaethylporphinato)Ru(II), 13
synthesis of some Ru complexes with mixed diimine ligands, 125

Schiff base complexes
on nature of high-spin ($^6A_1$) $\rightleftharpoons$ low-spin ($^2T_2$) transition in $[Fe(3\text{-}CH_3OSPH)_2]Y$ complexes, 185
transition metal complexes with 'end-off' compartmental Schiff bases containing sulphonic or phosphonic groups, 103
Selenide complexes
synthesis and characterization of bis-triphenylphosphine selenide complexes $[RhL(SePh_3)_2]ClO_4$ (L = COD, COT, NBD), 161
Selenocyanide complexes
structural isomerism involving an ambidentate ligand; synthesis and characterization of diselenocyanato[bis(diphenylphosphino)-methane]Pd(II) and cyano(selenocyanato)-[diphenyl(diphenylphosphinomethyl)-phosphone selenide]Pd(II), 205
Statistical kinetics
statistical analyses and examples for unimolecular reaction systems, 233
Sulfur compounds
formation of $[S(CN)_2]_n$ in solid phase reaction of ICN and KSCN, 1

Tantalum complexes
reactions of tantalocene trihydride $(\eta^5\text{-}C_5H_5)_2TaH_3$ with second group metal halogenides; crystal and molecular structure of $(\eta^5\text{-}C_5H_5)_2TaH(\mu_2\text{-}H)_2ZnCl_2 \cdot C_4H_8O$, 221
Technetium complexes
octaethylporphyrinato(oxo)Tc(V)acetate – example of new type of Tc porphyrin complex, 165
preparation, characterisation and reactions of chlorotetrakis(thiourea)nitridotechnetium(V) chloride, 153
Theoretical study
ligand electron densities in coordinated pyridine, 37
MS-X_α treatment of energy transitions in U(V) complexes, 295
Thiophosphate complexes
solid state ^{119}Sn NMR study of organotin carboxylates and thiophosphates, 151
Thiosemicarbazone complexes
synthesis and characterization of complexes of (4-methoxybenzaldehyde)-4-phenyl-3-thiosemicarbazone, 179
Thiourea complexes
preparation, characterisation and reactions of chlorotetrakis(thiourea)nitridotechnetium(V) chloride, 153
Thorium complexes
complexes of tetravalent Pu, U and Th with acylpyrazolones, 309
synthesis, structural characterization, and properties of organothorium alkylthiolate complex $[(CH_3)_5C_5]_2Th(SCH_2CH_2CH_3)_2$, 145
Tin complexes
solid state ^{119}Sn NMR study of organotin carboxylates and thiophosphates, 151
structure of dicyclohexyltin dichloride, 7
Titanium complexes
investigation of phases in Ti–Sb–O system, 53
Trinuclear complexes
preparations and characterizations of μ_3-oxo-hexakis(μ_2-carboxylatopyridine-*O,O*)triaqua-trichromium(III) perchlorates, 41
synthesis and reactions of tris(tricarbonyl-η^5-cyclopentadienylmolybdyl)phosphine, μ^3-P-$[\eta^5\text{-}C_5H_5Mo(CO)_3]_3$, 9
Tungsten complexes
reactions of $[WI_2(CO)(NCMe)(\eta^2\text{-}RC_2R)_2]$ (R = Me or Ph) with NCPh to give acetonitrile substituted products $[WI(CO)(NCPh)(\eta^2\text{-}RC_2R)_2]$, 17

Uranium complexes
complexes of tetravalent Pu, U and Th with acylpyrazolones, 309
crystal field splitting pattern of perdeuterated tris(η^5-cyclopentadienyl)U(IV) chloride in low energy range, 313
MS-X_α treatment of energy transitions in U(V) complexes, 295

Vanadium complexes
V(II)– and V(III)–formamidinato compounds; synthesis and molecular structure of $V(form)_2(NC_5H_5)_2$ and $V(\eta^5\text{-}C_5H_5)(form)_2$ [form = *N,N'*-di-*p*-tolylformamidine], 91
Volume
itinerant behavior of actinides; comparison of unit cell volumes of isostructural actinide and lanthanide compounds, 301

Zinc complexes
low frequency infrared spectra and thermal behaviour of *N,N,N'*-trimethylethylenediamine complexes, 173

Zirconium complexes
synthetic, chemical spectroscopic (infrared and electronic) and magnetic studies on dizirconium-enneaisopropoxide complexes of Fe(II), 289